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CENTRAL INTELLIGENCE AGENCY

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COUNTRY East Germany

REPORT

SUBJECT Wismut AG Ore Processing Installation
Zeche B, Objekt 101, near Zwickau

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SOURCE EVALUATIONS ARE DEFINITIVE APPROVAL OF COUNTRY

1. Zeche B of Objekt 101, Wismut A.G., near Zwickau has the following installations:

a. Unterzeche 2

6 ball mills, 40 coarse settling tanks (Grobsetzmaschinen),
20 fine settling tanks.

b. Unterzeche 3

2 ball mills, 36 "middlings" machines (Mittelproduktmaschinen), ca. 14
fine settling tanks, together with shaking sieves, for working up
waste (Abraumbearbeitung).

c. Unterzeche 4

48 oscillating tables

d. Unterzeche 5

Agitator tanks for clarification of the circulating water.

e. Unterzeche 5a

Filters and washing installations

f. Technical control station (OTK)

Drying and testing installations.

Unterzeche 2

2. In Unterzeche 2 of Zeche B, the end product from the jaw crushers of Zeche A is further broken down in ball mills. From the ball mills, the ore is fed into the coarse settling tanks, which have three compartments, with sieves with hole sizes 12 mm. x 8 mm, 12 mm. x 4 mm, 12 mm. x 3mm. respectively. A diagram of a coarse settling tank is given as Attachment A. The coarse ore, so separated, is shovelled into buckets and sent to the OTK section.

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(Note: Washington distribution indicated by "X"; Field distribution by "#".)

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3. The fine ore from the coarse settling tanks is pumped up to a first section of fine settling tanks. The ore passing through the first section of fine settling tanks is led to a second section of settling tanks; that not passing through the first section is designated as Abraum and is sent to the Abraumabteilung of Unterzeche 3 for further working.

Unterzeche 3

4. The coarsest ore from the coarse settling tanks of Unterzeche 2 is further broken down in the ball mills of Unterzeche 3 and fed into the "middlings" machines. The ore passing through the sieves in the "middlings" machines goes on to the fine settlers of Unterzeche 3; that remaining is passed back to the first section of fine settling tanks in Unterzeche 2.
5. The ore passing through the fine settlers is collected in aluminum buckets and, after settling and decanting of water, the material in the buckets is passed to the OTK department. The ore which does not pass through is sent on to the Abraumabteilung.
6. The Abraum from Unterzechen 2 and 3 is collected in a reservoir, from which it is pumped onto shaking sieves. That part passing through the shaking sieves is further worked in Unterzechen 4 and 5a; that part not passing through is led off as waste mud (Schlamm).

Unterzeche 4

7. The oscillating tables of Unterzeche 4 work material led from the Abraumabteilung. A diagram of an oscillating table is given as Attachment B. The finished material from the tables is sent in aluminum buckets to the OTK department, and that remaining on the tables is lead off to the waste pits.

Unterzeche 5

8. In this section the water circulating through Zeche B is clarified, and the material obtained from the clarification vats is sent to the waste pits.

Unterzeche 5a

9. Material from the Abraumabteilung is washed with water in containers agitated by compressed air. The resultant slurry is filtered, and the end product collected in aluminum buckets and sent to the OTK.

OTK Abteilung

10. End products in aluminum buckets are passed through a check point manned by Germans. The end product from Unterzechen 4 and 5a is said to have a higher activity than that from other Unterzechen.
11. The OTK drying room has two drying plates and two ovens. The dried material, separated into coarse and fine particles, is packed in sheet metal containers and sealed. The containers are sent to an OTK assembly station in the plant, for loading onto railway cars.

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Attachments:

- A. Diagram of the coarse settling tank used at Unterzeche 2 of Zeche B
(notations in German) (1 page)
- B. Diagram of the oscillating table used at Unterzeche 4 of Zeche B
(notations in German) (1 page)

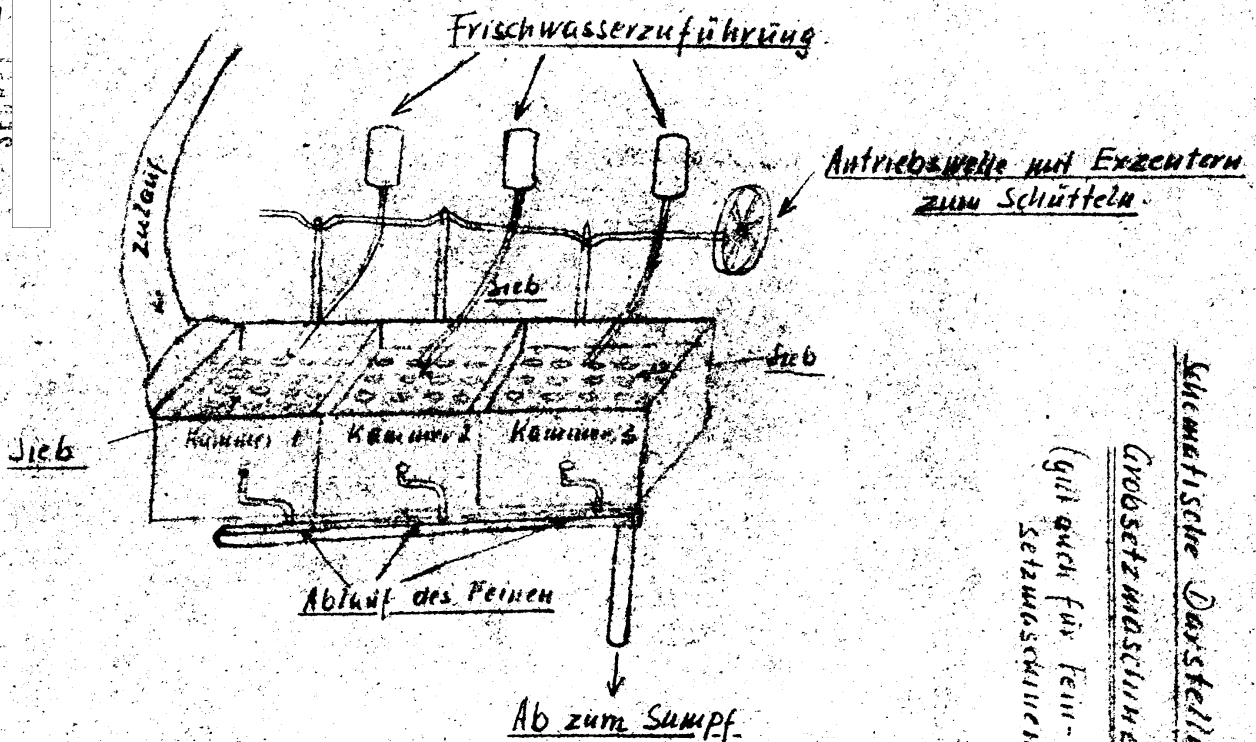
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Abbildung 4
Anlage

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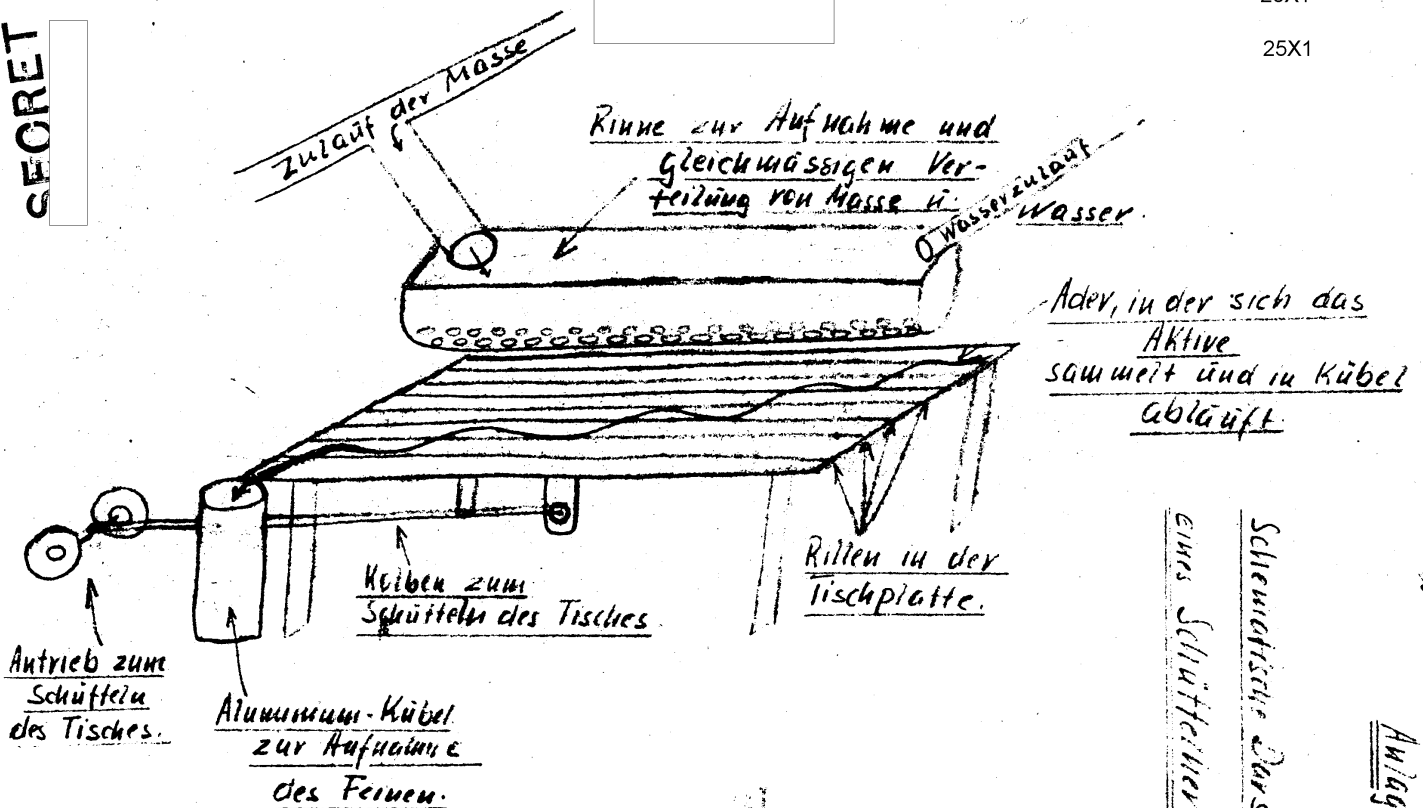
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Attachment B

Anlage "8"

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